



3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

July 11, 2006
Project No. 2029-2400-1

Mr. Barry Marcus
Sacramento County Environmental
Management Department
8475 Jackson Road, Suite 230
Sacramento, CA 95826

Subject: Well Abandonment Letter Report
Kwik Serv Fueling Station
2400 Fruitridge Road
Sacramento, California

Dear Mr. Marcus:

Stratus Environmental, Inc. (Stratus), on behalf of Bal Soin, has prepared this *Well Abandonment Letter Report* for the Kwik Serv Fueling Station (the site), located at 2400 Fruitridge Road, Sacramento, California (Figure 1). In a letter dated June 14, 2006, Sacramento County Environmental Management Department (SCEMD) requested that all groundwater monitoring and vapor extraction wells installed by Stratus be properly abandoned as part of the process to close the environmental case for the site. The requested well abandonments have been completed; details associated with completing the work are documented in this *Letter Report*.

WELL DESTRUCTIONS

Prior to initiating work activities, well abandonment permits were obtained from SCEMD. Copies of the well destruction permits are provided in Appendix A. A C-57 licensed drilling contractor (Cascade Drilling Inc., C-57 #717510) performed the well destruction activities. All work was completed under the direction of a State of California Professional Geologist. The former well locations are presented in Figure 2.

On July 7, 2006, monitoring well MW-4 and vapor extraction wells VW-1 and VW-2 were destroyed by pressure grouting with neat cement. Following completion of pressure grouting, the traffic rated vault boxes covering each well were removed. The upper 5 feet of the well casings were subsequently drilled out using an 8-inch diameter hollow stem auger. The remaining annular space above the grouted well casing was filled with clean

Mr. Barry Marcus, SCEMD
Well Abandonment Letter Report
Kwik Serv Fueling Station
Sacramento, California
Page 2

July 11, 2007
Project No. 2029-2400-1

soil and/or sand, and a concrete patch was placed flush with the surrounding driving surface.

Following completion of the work, Stratus submitted well destruction forms to the California Department of Water Resources (DWR). Copies of these well destruction forms are included in Appendix A.

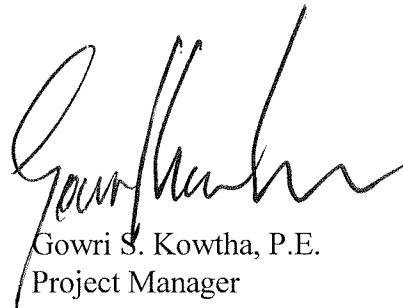
If you have any questions or comments, please contact Gowri Kowtha at (530) 676-6001.

Sincerely,

STRATUS ENVIRONMENTAL, INC.



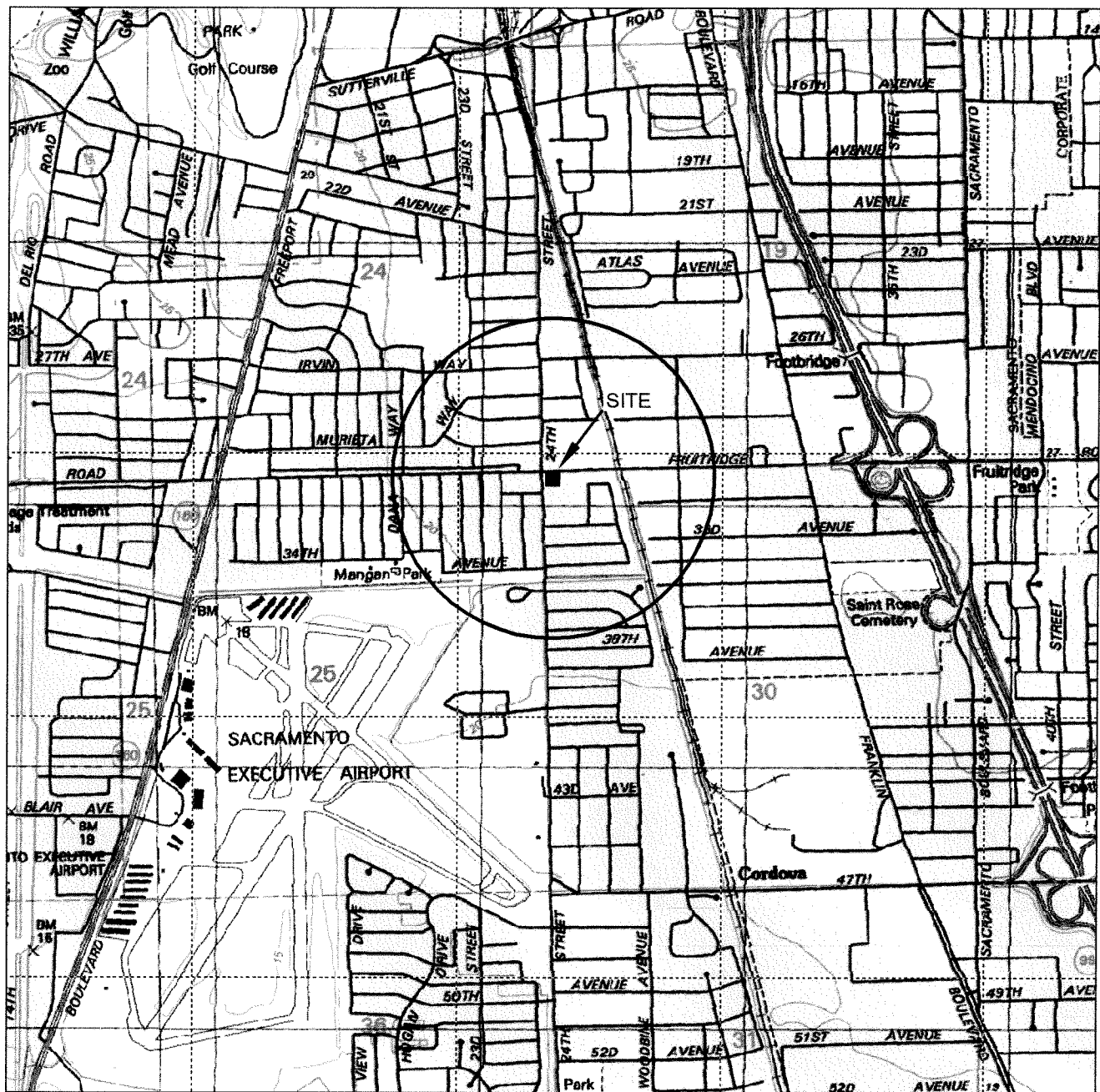
Scott G. Bittinger, P.G.
Project Geologist



Gowri S. Kowtha, P.E.
Project Manager

Attachments:	Figure 1	Site Location Map
	Figure 2	Site Plan
	Appendix A	DWR Well Abandonment Reports and Well Destruction Permits

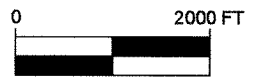
cc: Mr. Bal Soin, Kwik Serv
Ms. Vera Fischer, California Regional Water Quality Control Board



GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 SACRAMENTO, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION



SCALE 1:24,000

STRATUS
 ENVIRONMENTAL, INC.

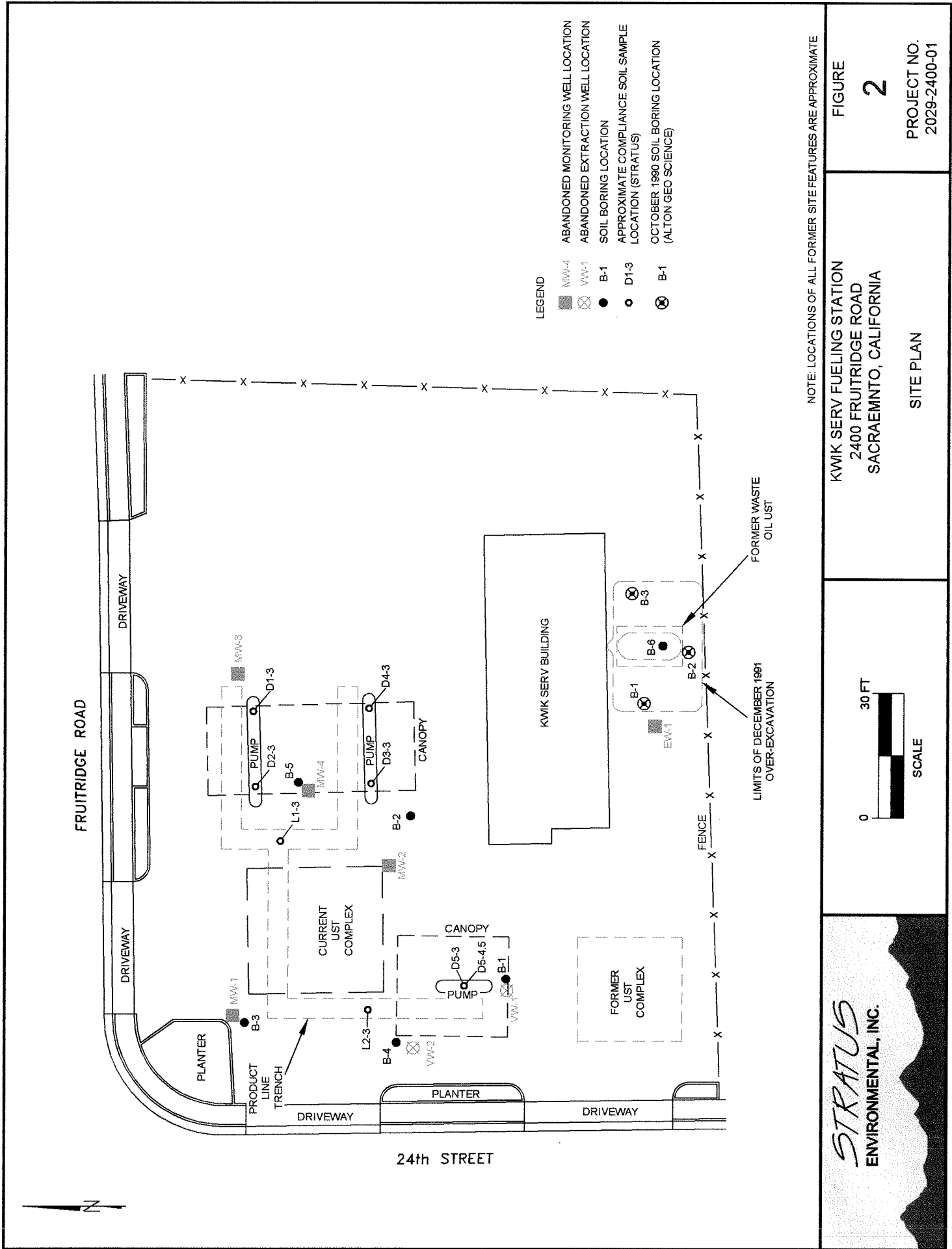
KWIK SERV FUELING STATION
 2400 FRUITRIDGE ROAD
 SACRAMENTO, CALIFORNIA

SITE LOCATION MAP

FIGURE

1

PROJECT NO.
 2029-2400-01



APPENDIX A

DWR WELL ABANDONMENT REPORTS AND WELL DESTRUCTION PERMITS

No. 0931116

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE

LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

WELL OWNER

[illegible]

Name Bal Soim

Mailing Address 2400 Fruitridge Rd
Sacramento

CITY Sacramento STATE CA ZIP 95820

Address 2400 Fruitridge Rd

City Sacramento

County Sacramento

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Lat _____ N Long _____ W

DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH NORTH

See site plan

WEST EAST

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

☒ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES (✓)

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDICATION

OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 30 (Ft.) & DATE MEASURED _____

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

* May not be representative of a well's long-term yield.

[illegible]ATTACHMENTS ()

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other *site plan*

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Stratus Environ mental, Inc.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

3330 Cameron Park Dr. Suite 550 Cameron Park CA 95682
ADDRESS CITY STATE ZIP

Signed Scott Bettner for Cascade Drilling Inc. 7-7-06 717510
C-57 LICENSED WATER WELL CONTRACTOR DATE SIGNED C-57 LICENSE NUMBER

GEOLOGIC LOG			WELL OWNER		
ORIENTATION ()			Name		
DRILLING METHOD			Mailing Address		
DEPTH FROM SURFACE			CITY		
DESCRIPTION			STATE		
Describe material, grain size, color, etc.			ZIP		
pressure grout well with neat cement			Address		
overdrill upper 5 feet of casing using hollow stem auger			City		
remove vault box well cover			County		
patch ground surface			APN Book		
			Page		
			Parcel		
			Township		
			Range		
			Section		
			Lat		
			Long		
			DEG. MIN. SEC. N		
			DEG. MIN. SEC. W		
			LOCATION SKETCH		
			NORTH		
			WEST		
			EAST		
			SOUTH		
			Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.		
			MONITORING		
			TEST WELL		
			CATHODIC PROTECTION		
			HEAT EXCHANGE		
			DIRECT PUSH		
			INJECTION		
			VAPOR EXTRACTION		
			SPARGING		
			REMEDIATION		
			OTHER (SPECIFY)		
			NEW WELL		
			MODIFICATION/REPAIR		
			Deepen		
			Other (Specify)		
			DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")		
			USES ()		
			WATER SUPPLY		
			Domestic		
			Public		
			Irrigation		
			Industrial		
			TOTAL DEPTH OF BORING		
			(Feet)		
			TOTAL DEPTH OF COMPLETED WELL		
			(Feet)		

[illegible]

ATTACHMENTS (\leq)	CERTIFICATION STATEMENT
<input type="checkbox"/> Geologic Log <input type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input checked="" type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>Site plan</u>	<p>I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.</p> <p>NAME <u>Statrus Environmental, Inc.</u> <small>(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)</small></p> <p><u>3300 Cameron Park Dr., Suite 550</u> <u>Cameron Park CA</u> <u>95682</u> <small>ADDRESS CITY STATE ZIP</small></p> <p><u>Sally Blynn for Cascade Drilling, Inc.</u> <small>Signed C-57 LICENSED WATER WELL CONTRACTOR</small></p> <p><u>DATE SIGNED</u> <u>7/17/510</u> <small>C-57 LICENSE NUMBER</small></p>

WELL APPLICATION
and PERMIT FORM

FOR OFFICE USE ONLY

☐ DISAPPROVED ☒ APPROVED
☐ APPROVED WITH CONDITIONS (See attachment)
By: Bm Date: 6/30/06 Total Fee: \$ 78.00 Receipt Number: 157072
Date Received: 6/29/06 Permit Number: 29635
Date Issued: / / Census Tract:
Grout inspection By: Date: / / Deferred By: Site Number:
Actual Well Depth: Actual Grout Depth: Final Inspection By: Date: / /
Depth to first Water: Well Destruction Inspection By: Date: / /
Reinspection By: Date(s): Fee @ Prevailing Rate: \$

COMMENTS: Pressure grout, overdrill upper 5'

APPLICATION FOR A PERMIT TO PERFORM WORK AT THE LOCATION AS INDICATED BELOW: BIM

Inspecting Division: ☐ ENVIRONMENTAL HEALTH ☒ HAZARDOUS MATERIALS
Site Address: 2400 Fruitridge Rd City: Sacramento Zip: 95822
Nearest Major Cross Street: 24th St. Parcel Number: 025-0071-039-0000
Property Owner: Bob Soir & John Bailey Phone Number:
Owner's Address: 2400 Fruitridge Rd City: Sacramento Zip: 95822
Well Contractor: Cascado Drilling, Inc. License Number: 717510 Type: C-57
Contractor Address: 3632 Amec Circle Expiration Date: Jan 2008
City: Rancho Cordova Zip: 95742 Phone: 638-1169 Well/Boring Identification Number: VW-1

WORK TO BE PERFORMED:

☐ Construct Well, (C-57 Lic. Req.) ☐ Install New Pump, (C-57, C-61 or Class A) ☐ Test Hole With Destruction (C-57 Lic. Req.)
☐ Deepen Well, (C-57 Lic. Req.) ☐ Repair/Replace Pump, (C-57, C-61 or Class A) ☐ Inactivation Permit, Owner Only
☐ Repair Well, (C-57 Lic. Req.) ☒ Destroy Well (C-57 Lic. Required) ☐ Other (state)

Comments:
DISTANCE TO NEAREST: Leach Field: Leach Pit: Septic Tank: Sewer Line:
Stream, ditch, Drainage Canal: 100 year flood plain:

INTENDED USE:

☐ Domestic/Private
☐ Public Water System
☐ Irrigation
☐ Cathodic Protection
☐ Monitoring
☐ Extraction/Recovery
☐ Other (state)

DRILLING

METHOD:

☐ Auger
☐ Cable Tool
☐ Driven
☐ Rotary
☐ Other (state)

BOREHOLE:

CASING:

GROUT:

TRANSITION SEAL:

Material:

Interval:

CONSTRUCTION SPECIFICATIONS

Diameter: Depth: Gravel Pack: ☐ Yes ☐ No
If Steel, Gauge: or Thickness:
If Plastic, Type: (MUST MEET ASTM F-480)
If Conductor, Diameter: Depth:
Sealing Material: neat cement
Material: Interval:

Comments:
PUMP INSTALLATION/REPAIR: Contractor: License Number:
Type of Pump: Horse Power: License Type: Expiration Date:
WELL/TEST HOLE DESTRUCTION: Diameter: 2 inches Total Depth: 18' Depth to Water: 30'

I will comply with all Codes, Rules and Regulations of the State and County pertaining to or regulating well construction, call for a grout/destruction inspection at least 48 hours prior to placement of sealing material, notify the Department within 5 days of the completion of my work so a final inspection can be made and obtain final approval before placing the well in service.

Signature: Scott Bittinger ☐ Property Owner ☐ Well Contractor
Print Name: Scott Bittinger ☐ Agent for Property Owner* ☒ Agent for Well Contractor*
Company: Strada's Environmental, Inc. Phone: 530-676-2062 *Authorization Verified By:
Mailing Address: 3330 Cameron Park Dr. Suite 530 City, State, Zip: Cameron Park, CA 95682

A SITE PLAN MUST BE SUBMITTED WITH EACH APPLICATION
PERMIT EXPIRES ONE (1) YEAR FROM DATE ISSUED

WELL APPLICATION
and PERMIT FORM

FOR OFFICE USE ONLY

☐ DISAPPROVED ☒ APPROVED
☐ APPROVED WITH CONDITIONS (See attachment)

Date Received: 6/29/06 Permit Number: 29634
Date Issued: / / Census Tract:

By: Bm Date: 6/30/06 Total Fee: \$ 78.00 Receipt Number: 157072

Grout inspection By: Date: / / Deferred By: Site Number:

Actual Well Depth: Actual Grout Depth: Final Inspection By: Date: / /

Depth to first Water: Well Destruction Inspection By: Date: / /

Reinspection By: Date(s): Fee @ Prevailing Rate: \$

COMMENTS: pressure grout, overdrill uppers

APPLICATION FOR A PERMIT TO PERFORM WORK AT THE LOCATION AS INDICATED BELOW:

Inspecting Division: ☐ ENVIRONMENTAL HEALTH ☒ HAZARDOUS MATERIALS

Site Address: 2400 Fairbridge Rd City: Sacramento Zip: 95827
Nearest Major Cross Street: 24th St Parcel Number: 025-0071-039-000
Property Owner: Bob Soin & John Bailey Phone Number:
Owner's Address: 2400 Fairbridge Rd City: Sacramento Zip: 95822
Well Contractor: Cascade Drilling License Number: 717510 Type: C-57
Contractor Address: 3637 Omec Circle Expiration Date: Jan 2008
City: Rancho Cordova Zip: 95742 Phone: 638-1169 Well/Boring Identification Number: WU-7

WORK TO BE PERFORMED:

☐ Construct Well, (C-57 Lic. Req.) ☐ Install New Pump, (C-57, C-61 or Class A) ☐ Test Hole With Destruction (C-57 Lic. Req.)
☐ Deepen Well, (C-57 Lic. Req.) ☐ Repair/Replace Pump, (C-57, C-61 or Class A) ☐ Inactivation Permit, Owner Only
☐ Repair Well, (C-57 Lic. Req.) ☒ Destroy Well (C-57 Lic. Required) ☐ Other (state)

Comments:

DISTANCE TO NEAREST: Leach Field: Leach Pit: Septic Tank: Sewer Line:
Stream, ditch, Drainage Canal: 100 year flood plain:

INTENDED USE: ☐ Domestic/Private ☐ Public Water System ☐ Irrigation ☐ Cathodic Protection ☐ Monitoring ☐ Extraction/Recovery ☐ Other (state)

DRILLING METHOD: ☐ Auger ☐ Cable Tool ☐ Driven ☐ Rotary ☐ Other (state)

CONSTRUCTION SPECIFICATIONS

BOREHOLE: Diameter: Depth: Gravel Pack: ☐ Yes ☐ No

CASING: Diameter: Depth:
If Steel, Gauge: or Thickness:
If Plastic, Type: (MUST MEET ASTM F-480)
If Conductor, Diameter: Depth:

GROUT: Depth: 18' Sealing Material: not cement

TRANSITION SEAL: Material: Interval:

Comments:

PUMP INSTALLATION/REPAIR: Contractor: License Number:
Type of Pump: Horse Power: License Type: Expiration Date:

WELL/TEST HOLE DESTRUCTION: Diameter: 2 inches Total Depth: 18' Depth to Water: 30'

I will comply with all Codes, Rules and Regulations of the State and County pertaining to or regulating well construction, call for a grout/destruction inspection at least 48 hours prior to placement of sealing material, notify the Department within 5 days of the completion of my work so a final inspection can be made and obtain final approval before placing the well in service.

Signature: Scott Bittencourt ☐ Property Owner ☐ Well Contractor
Print Name: Scott Bittencourt ☐ Agent for Property Owner* ☒ Agent for Well Contractor*
Company: State's Environmental, Inc. Phone: 530-676-2062 *Authorization Verified By:
Mailing Address: 3330 Cameron Park Dr. #550 City, State, Zip: Cameron Park, CA 95682

A SITE PLAN MUST BE SUBMITTED WITH EACH APPLICATION
PERMIT EXPIRES ONE (1) YEAR FROM DATE ISSUED

WELL APPLICATION
and PERMIT FORM

FOR OFFICE USE ONLY

☐ DISAPPROVED ☒ APPROVED
☐ APPROVED WITH CONDITIONS (See attachment)
Date Received: 6/29/06 Permit Number: 29636
Date Issued: / / Census Tract:
By: Sam Date: 6/30/06 Total Fee: \$ 328.00 Receipt Number: 157072
Grout inspection By: Date: / / Deferred By: Site Number:
Actual Well Depth: Actual Grout Depth: Final Inspection By: Date: / /
Depth to first Water: 100 Well Destruction Inspection By: Date: / /
Reinspection By: Date(s): Fee @ Prevailing Rate: \$

COMMENTS:

APPLICATION FOR A PERMIT TO PERFORM WORK AT THE LOCATION AS INDICATED BELOW:

Inspecting Division: ☐ ENVIRONMENTAL HEALTH ☒ HAZARDOUS MATERIALS
Site Address: 2400 Fruitridge Rd City: Sacramento Zip: 95822
Nearest Major Cross Street: 24th St Parcel Number: 025-0071-039-0000
Property Owner: Bal Soin & John Bailey Phone Number:
Owner's Address: 2400 Fruitridge Rd City: Sacramento Zip: 95822
Well Contractor: Carlsade Drilling License Number: 717510 Type: C-57
Contractor Address: 3632 Over Circle Expiration Date: Jan 2008
City: Rancho Cordova Zip: 95742 Phone: 639-4469 Well/Boring Identification Number: MW-4

WORK TO BE PERFORMED:

☐ Construct Well, (C-57 Lic. Req.) ☐ Install New Pump, (C-57, C-61 or Class A) ☐ Test Hole With Destruction (C-57 Lic. Req.)
☐ Deepen Well, (C-57 Lic. Req.) ☐ Repair/Replace Pump, (C-57, C-61 or Class A) ☐ Inactivation Permit, Owner Only
☐ Repair Well, (C-57 Lic. Req.) ☒ Destroy Well (C-57 Lic. Required) ☐ Other (state)

Comments:
DISTANCE TO NEAREST: Leach Field: Leach Pit: Septic Tank: Sewer Line:
Stream, ditch, Drainage Canal: 100 year flood plain:

INTENDED USE:

☐ Domestic/Private
☐ Public Water System
☐ Irrigation
☐ Cathodic Protection
☐ Monitoring
☐ Extraction/Recovery
☐ Other (state)

DRILLING

METHOD:

☐ Auger
☐ Cable Tool
☐ Driven
☐ Rotary
☐ Other (state)

BOREHOLE:

CASING:

GROUT:

TRANSITION SEAL:

Material:

Interval:

Depth:

Sealing Material:

Gravel Pack:

Yes ☐ No ☐

If Steel, Gauge: or Thickness:

If Plastic, Type: (MUST MEET ASTM F-480)

If Conductor, Diameter: Depth:

Depth: 40'

Sealing Material: neat cement

Gravel Pack:

If Steel, Gauge: or Thickness:

If Plastic, Type: (MUST MEET ASTM F-480)

If Conductor, Diameter: Depth:

Depth: 40'

Sealing Material: neat cement

Comments:
PUMP INSTALLATION/REPAIR: Contractor: License Number:
Type of Pump: Horse Power: License Type: Expiration Date:
WELL/TEST HOLE DESTRUCTION: Diameter: 8-inches Total Depth: 40' Depth to Water: 30'

I will comply with all Codes, Rules and Regulations of the State and County pertaining to or regulating well construction, call for a grout/destruction inspection at least 48 hours prior to placement of sealing material, notify the Department within 5 days of the completion of my work so a final inspection can be made and obtain final approval before placing the well in service.

Signature: Scott Bittinger ☐ Property Owner ☐ Well Contractor
Print Name: Scott Bittinger ☐ Agent for Property Owner* ☒ Agent for Well Contractor*
Company: Statens Environmental, Inc Phone: 530-676-2062 *Authorization Verified By:
Mailing Address: 3330 Cameron Park Dr. #550 City, State, Zip: Cameron Park, CA 95682

A SITE PLAN MUST BE SUBMITTED WITH EACH APPLICATION

PERMIT EXPIRES ONE (1) YEAR FROM DATE ISSUED